NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity

(Tension in kips) = 1.25 x fy x A<sub>1</sub>

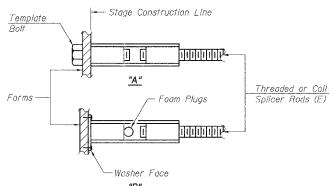
(Tension in kips) Minimum \*Pull-out Strength =  $1.25 \times fs_{allow} \times A_{t}$ 

Where fy = Yield strength of lapped reinforcement bars in ksi.

fsallow= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  $A_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES			
	Splicer Rod or Dowel Bar Length	Strength Requirements	
			Min. Pull-Out Strength kips - tension
#4	1'-8''	14.7	5.9
#5	2'-0''	23.0	9.2
#6	2'-7''	33.1	13.3
#7	3′-5′′	45.1	18.0
#8	4′-6′′	58.9	23.6
#9	5′-9″	75.0	30.0
#10	7′-3′′	95.0	38.0
#11	9′-0′′	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS,"



## BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

\*\* ONE PIECE

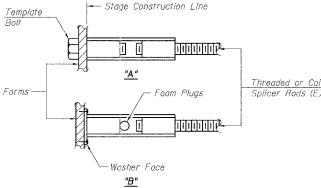
-Wire Connector

The diameter of this part is

equal or larger than the

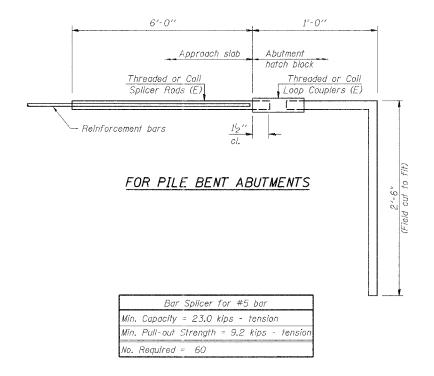
diameter of bar spliced.

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



## INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



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The diameter of this part

of the bar spliced.

is the same as the diameter

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REVISIONS NAME VILLAGE OF WINNETKA, ILLINOIS BAR SPLICER ASSEMBLY DETAILS PINE STREET OVER THE UNION PACIFIC R.R. R.R. MILE POST 16.89 KENOSHA SUBDIVISION COOK COUNTY STA. 101+09.96 STRUCTURE NO. 016-8259

> SCALE: NONE DATE: MARCH 2006 FILE: 3278

DRAWN BY: RCD CHECKED BY: SCD